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NATIONAL COMMUNICABLE DISEASE CENTER

Morbidity and Mortality

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WEEKLY REPORT

Week Ending October 19, 1968

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

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EPIDEMIOLOGIC NOTES AND REPORTS

HUMAN RABIES – Elk City, Kansas

On October 10, 1968, a 13-year-old boy from Elk City, Kansas, died after a 63-day illness that has been diagnosed as rabies. His initial symptoms on August 7 were malaise, anorexia, nausea, and vomiting. Over the next 10 days he developed fever, confusion, hallucinations, numbness, paresthesias, and paresis of the right hand and arm. On August 17, the boy experienced increased confusion and marked respiratory distress. That same day during transfer to a hospital in Wichita, he suffered cardiac respiratory arrest, but was resuscitated after experiencing anoxic seizures. Over the next few days, he suffered several other respiratory arrests. He became comatose and had flaccid quadriplegia which lasted during the remainder of his illness. Throughout his hospitalization, but especially during the last 6 weeks, he appeared to have excessive salivation and respiratory tract secretions. He died following cardio-respiratory failure.

The patient had no known history of exposure to rabies, and the clinical impression during his illness was

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TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES, UNITED STATES

(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	42nd WEEK ENDED		MEDIAN	CUMULATIVE, FIRST 42 WEEKS		
	October 19, 1968	October 21, 1967	1963 - 1967	1968	1967	MEDIAN 1963 - 1967
Aseptic meningitis	126	108	59	3,559	2,410	1,717
Brucellosis	3	4	4	185	206	209
Diphtheria	14	3	4	181	116	158
Encephalitis, primary:						
Arthropod-borne & unspecified	36	31	---	1,115	1,320	---
Encephalitis, post-infectious	4	3	---	405	670	---
Hepatitis, serum	134	54	718	3,633	1,763	31,071
Hepatitis, infectious	1,021	846		36,303	31,041	
Malaria	40	78	4	1,874	1,634	88
Measles (rubeola)	135	367	784	20,235	59,079	243,982
Meningococcal infections, total	27	29	39	2,163	1,812	2,251
Civilian	27	29	---	1,979	1,695	---
Military	—	—	---	184	117	---
Mumps	1,169	---	---	129,558	---	---
Poliomyelitis, total	2	1	2	50	28	77
Paralytic	2	1	1	50	24	72
Rubella (German measles)	285	328	---	45,161	40,987	---
Streptococcal sore throat & scarlet fever	7,011	7,997	6,149	337,227	360,761	320,599
Tetanus	6	3	5	145	183	214
Tularemia	—	3	3	157	147	208
Typhoid fever	9	10	11	312	343	351
Typhus, tick-borne (Rky. Mt. spotted fever)	3	6	2	265	292	226
Rabies in animals	44	65	65	2,826	3,561	3,561

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	3	Rabies in man: Kans.-1	1
Botulism:	5	Rubella, Congenital Syndrome:	5
Leptospirosis: Tenn.-1, Tex.-1	38	Trichinosis:*	51
Plague:	2	Typhus, murine:* Tex.-1	27
Psittacosis: Conn.-1	39		

*Delayed Reports: Trichinosis: N.Y.C. delete 1
Typhus, murine: Ky. 1

HUMAN RABIES – *(Continued from front page)*

encephalitis of unknown etiology. Routine hematologic and chemical tests were within normal limits; cerebrospinal fluid revealed a cell count of 87 white cells with 90 percent lymphocytes and a protein of 74 mg percent. Stool cultures were negative for polio and other enteroviruses. Serologic tests were negative for Western Equine, California, and St. Louis encephalitis and for mumps, lymphochorio-meningitis, poliomyelitis, psittacosis, and Rocky Mountain spotted fever. Rabies neutralizing antibody showed a rise in titer from <1:5 on serum drawn August 17 to >1:50 on serum drawn September 6. These results were confirmed by indirect fluorescent antibody and complement-fixation tests. Fluorescent antibody staining for rabies antigen and mouse inoculation studies of the patient's brain following autopsy were positive, confirming the diagnosis of rabies.

Epidemiologic investigation in Elk City revealed a unique ecological opportunity for the development of human rabies. The town of 525 people in a rural area of southeastern Kansas has an animal population of at least 150 dogs, 150 cats, and an unknown number of stray animals. Both the human and animal populations are in close contact with a large skunk population in which rabies has been found. The level of immunization in the domestic animals against rabies is less than 10 percent. The patient had a paper route which covered the entire town. He was bitten and nipped by many animals several times per week since acquiring the paper route in January 1968. Because of the lack of known exposure to a rabid animal, the boy received no antirabies therapy.

The following recommendations were made by local and state authorities in Kansas: (1) Vaccination of all dogs and cats against rabies; (2) Elimination of all stray animals; (3) A systematic reduction of the wild skunk population.

(Reported by Donald Wilcox, M.D., State Epidemiologist, Kansas State Department of Health; Rosemary Harvey, M.D., Director, Division of Preventive Medicine, Wichita-Sedgwick County Department of Health; Edgar H. Beahm, M.D., Health Officer, Montgomery County Health Department; Leonard Sullivan, M.D., Attending Physician, St. Francis Hospital, Wichita, Kansas; Ralph Summer, M.D., Attending Physician, St. Margaret's Mercy Hospital, Fredonia, Kansas; and a team from NCDC.)

Editorial Note:

This case of human rabies is the first acquired in the United States in 2 years. In 1967 the two human cases acquired their infections in Africa (MMWR, Vol. 16, Nos. 30 and 31).

CURRENT TRENDS
VIRAL HEPATITIS – United States 1968

During the spring quarter (March 31, 1968, through June 29, 1968) of epidemiologic year* 1967-68, 12,226 cases of viral hepatitis (infectious and serum) were reported in the United States for a rate of 6.2 cases per 100,000 population (Table 1). This was a 22 percent increase over the rate of 5.1 (9,922 cases) for the spring quarter of the previous year. In addition, it was the third time since 1952 that the spring quarter incidence was higher than the preceding winter quarter incidence. This occurred for the first time in epidemiologic year 1952-53 and for the second time in 1959-60. Both of these years immediately preceded a peak year in their respective epidemic cycle. The number of reported cases of serum hepatitis (1,133) for the spring quarter 1967-68 was more than twice the 534 cases reported for the spring quarter 1966-67.

Increases in rate, ranging from 2 to 58 percent, were observed in every division but the West South Central which decreased by 9 percent in the spring quarter of 1967-68 from the comparable quarter in 1966-67. The Pacific division experienced the greatest increase in rate (58 percent) with a major part of that increase due to the almost threefold increase in the number of reported cases of serum hepatitis (627 compared with 233).

The upward trend of viral hepatitis continued through the summer quarter (June 30, 1968, through September 28, 1968) of epidemiologic year 1968-69. There were 12,659 cases of viral hepatitis reported for an incidence of 6.3 cases per 100,000 population (Table 2). This was a 31 percent increase over the rate of 4.8 (9,523 cases) in the summer quarter of the previous year. Cases reported as serum hepatitis (1,231) in the 1968-69 summer quarter were more than twice the number reported for the corresponding quarter of 1967-68.

The 31 percent increase in rate for the United States as a whole reflected rate increases in all divisions except the West South Central which had a decrease in rate of 24 percent. Rate increases among the remaining divisions ranged from 17 to 69 percent with the New England division experiencing the highest increase. The increased numbers of cases reported as serum hepatitis accounted for a large part of the total viral hepatitis rate increases in the Middle Atlantic and Pacific divisions.

The pattern of viral hepatitis during the spring quarter of 1967-68 and the summer quarter of 1968-69 can be seen in relation to previous years in Figure 1. Two peaks in the curve are apparent; the 1953-54 peak was followed by a progressive 5-year decline in incidence until 1958-59 when a reversal in this downward trend occurred. This was followed by a second peak year, 1960-61, 2 years later. The progressive decline in incidence, following the 1960-61 peak, reversed itself during epidemiologic year 1966-67, 6 years after the previous peak year. This reversal has continued through the summer quarter 1968-69. The rates in the first 3 quarters of 1968 were higher than rates for the comparable quarters of 1967. In contrast, preceding the peak (1960-61) of the last epidemic cycle, the rates for the first 3 quarters of 1960 were markedly

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Table 1
Reported Cases and Incidence of Viral Hepatitis, by Geographic Division
Spring Quarters 1967-68 and 1966-67

Geographic Division	Spring Quarter April 2, 1967–July 1, 1967				Spring Quarter March 31, 1968–June 29, 1968				Change from Spring Quarter EY* 1966-67 to Spring Quarter EY 1967-68	
	Cases			Rate**	Cases			Rate**	Cases	Percent Change in Rate
	Serum Hepatitis	Infectious Hepatitis	Total		Serum Hepatitis	Infectious Hepatitis	Total			
United States	531	9,388	9,922	5.1	1,133	11,093	12,226	6.2	+2,304	+22
New England	18	100	418	3.7	35	411	416	3.9	+28	+5
Middle Atlantic	217	1,594	1,811	4.9	338	1,745	2,083	5.6	+272	+14
East North Central	21	1,489	1,510	3.9	49	1,829	1,878	1.8	+368	+23
West North Central	4	679	683	4.3	5	717	722	1.5	+39	+5
South Atlantic	17	998	1,015	3.5	45	1,002	1,047	3.6	+32	+3
East South Central	8	612	620	4.8	4	634	638	4.9	+18	+2
West South Central	16	1,042	1,058	5.6	17	957	974	5.1	−84	−9
Mountain	0	427	427	5.5	13	577	590	7.6	+163	+38
Pacific	233	2,117	2,380	9.6	627	3,221	3,848	15.2	+1,468	+58

*Epidemiologic Year

**Rate per 100,000 population based on U.S. Census mid-year estimates July 1, 1966, and July 1, 1967

Table 2
Reported Cases and Incidence of Viral Hepatitis, by Geographic Division
Summer Quarters 1968-69 and 1967-68

Geographic Division	Summer Quarter July 2, 1967–Sept. 30, 1967				Summer Quarter June 30, 1968–Sept. 28, 1968				Change from Summer Quarter EY 1967-68 to Summer Quarter EY 1968-69	
	Cases			Rate*	Cases			Rate*	Cases	Percent Change in Rate
	Serum Hepatitis	Infectious Hepatitis	Total		Serum Hepatitis	Infectious Hepatitis	Total			
United States	602	8,921	9,523	4.8	1,231	11,428	12,659	6.3	+3,136	+31
New England	8	395	403	3.6	30	669	699	6.1	+296	+69
Middle Atlantic	226	1,390	1,616	4.4	113	1,756	2,169	5.9	+553	+34
East North Central	23	1,268	1,291	3.3	44	1,592	1,636	4.1	+345	+24
West North Central	7	530	537	3.4	17	646	663	4.1	+126	+21
South Atlantic	30	1,007	1,037	3.5	60	1,182	1,242	4.1	+205	+17
East South Central	6	579	585	4.5	10	682	692	5.3	+107	+18
West South Central	22	1,008	1,030	5.4	35	761	796	4.1	−234	−24
Mountain	1	364	365	4.7	5	558	563	7.1	+198	+51
Pacific	279	2,380	2,659	10.5	617	3,582	4,199	16.4	+1,540	+56

*Rate per 100,000 population, based on U.S. Census mid-year estimates July 1, 1967, and July 1, 1968

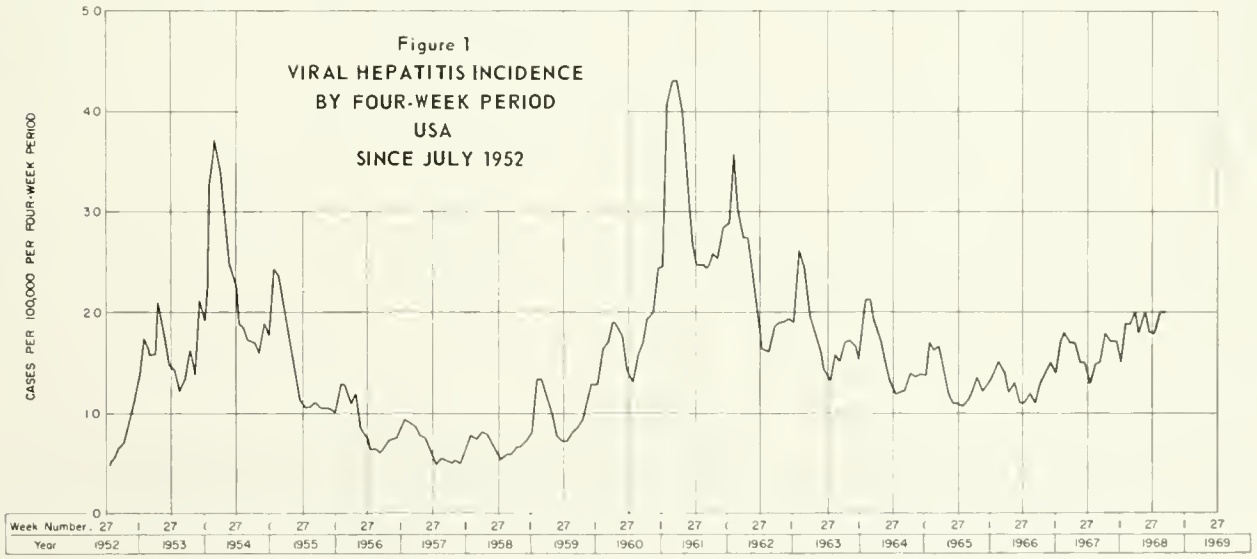

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

OCTOBER 19, 1968 AND OCTOBER 21, 1967 (42nd WEEK)

AREA	ASEPTIC MENINGITIS		BRUCELLOSIS	DIPHTHERIA	ENCEPHALITIS			HEPATITIS			MALARIA
					Primary including unsp. cases		Post-Infectious	Serum	Infectious		
	1968	1967	1968	1968	1968	1967	1968	1968	1968	1967	1968
UNITED STATES...	126	108	3	14	36	31	4	134	1,021	846	40
NEW ENGLAND.....	6	1	-	-	2	-	-	10	56	43	-
Maine*.....	-	-	-	-	-	-	-	-	1	2	-
New Hampshire.....	-	-	-	-	-	-	-	-	2	2	-
Vermont.....	-	-	-	-	-	-	-	-	5	-	-
Massachusetts.....	2	-	-	-	2	-	-	-	24	19	-
Rhode Island.....	4	1	-	-	-	-	-	-	6	5	-
Connecticut.....	-	-	-	-	-	-	-	10	18	15	-
MIDDLE ATLANTIC.....	31	11	-	-	6	2	1	47	186	157	8
New York City.....	20	7	-	-	-	-	-	26	57	64	-
New York, Up-State.*	-	-	-	-	1	-	-	-	31	25	1
New Jersey.....	10	2	-	-	2	-	-	19	51	34	1
Pennsylvania.....	1	2	-	-	3	2	1	2	47	34	6
EAST NORTH CENTRAL...	18	8	-	-	11	10	2	13	165	134	2
Ohio.....	11	4	-	-	10	8	1	3	35	27	-
Indiana*.....	-	-	-	-	-	-	-	-	16	14	-
Illinois.....	1	3	-	-	1	-	-	4	55	62	1
Michigan.....	6	1	-	-	-	1	1	6	52	29	1
Wisconsin.....	-	-	-	-	-	1	-	-	7	2	-
WEST NORTH CENTRAL...	1	1	-	-	1	4	-	3	38	45	6
Minnesota.....	-	1	-	-	-	3	-	3	8	8	3
Iowa.....	-	-	-	-	-	-	-	-	8	7	-
Missouri.....	-	-	-	-	-	-	-	-	15	24	1
North Dakota.....	1	-	-	-	-	-	-	-	-	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	-	-	-	-	-	1	2	-
Kansas.....	-	-	-	-	1	1	-	-	6	4	2
SOUTH ATLANTIC.....	8	33	-	1	3	4	-	-	124	78	9
Delaware.....	-	-	-	-	-	-	-	-	-	6	-
Maryland.....	1	24	-	-	-	-	-	-	14	13	-
Dist. of Columbia*.	-	-	-	-	-	-	-	-	1	1	-
Virginia.....	-	1	-	-	1	1	-	-	23	13	-
West Virginia.....	1	3	-	-	1	-	-	-	4	10	-
North Carolina.....	1	3	-	-	1	3	-	-	3	7	9
South Carolina.....	1	-	-	-	-	-	-	-	10	3	-
Georgia.....	-	-	-	1	-	-	-	-	17	18	-
Florida.....	4	2	-	-	-	-	-	-	52	7	-
EAST SOUTH CENTRAL...	3	5	2	1	1	1	-	-	84	64	-
Kentucky.....	2	1	-	-	-	-	-	-	42	24	-
Tennessee.....	1	4	1	-	1	-	-	-	18	26	-
Alabama.....	-	-	-	1	-	-	-	-	7	4	-
Mississippi.....	-	-	1	-	-	1	-	-	17	10	-
WEST SOUTH CENTRAL...	8	5	-	12	-	2	-	2	75	82	2
Arkansas.....	-	-	-	2	-	-	-	-	11	13	1
Louisiana.*.....	3	2	-	10	-	1	-	1	14	13	1
Oklahoma.....	3	1	-	-	-	-	-	-	3	15	-
Texas.*.....	2	2	-	-	-	1	-	1	47	41	-
MOUNTAIN.....	4	-	-	-	-	1	-	-	41	24	1
Montana*.....	-	-	-	-	-	-	-	-	4	3	1
Idaho.....	-	-	-	-	-	-	-	-	9	1	-
Wyoming.....	-	-	-	-	-	-	-	-	-	-	-
Colorado.....	3	-	-	-	-	1	-	-	12	4	-
New Mexico.....	-	-	-	-	-	-	-	-	7	6	-
Arizona.....	1	-	-	-	-	-	-	-	4	5	-
Utah.....	-	-	-	-	-	-	-	-	5	5	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	47	44	1	-	12	7	1	59	252	219	12
Washington.....	2	-	-	-	-	-	-	-	25	20	1
Oregon.....	4	3	-	-	-	1	-	3	16	13	-
California.....	40	33	1	-	12	6	1	56	205	185	11
Alaska.....	-	-	-	-	-	-	-	-	1	1	-
Hawaii.....	1	8	-	-	-	-	-	-	5	-	-
Puerto Rico.....	-	1	-	-	-	-	-	-	21	31	-

*Delayed reports: Aseptic meningitis: Tex. delete 1
Diphtheria: N.Y. Upstate 1, Tex. 9
Encephalitis, primary: Tex. delete 1
Hepatitis, serum: Ind. delete 1, D.C. 6
Hepatitis, infectious: Me. 6, La. delete 1, Tex. delete 3, Mont. delete 2

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

OCTOBER 19, 1968 AND OCTOBER 21, 1967 (42nd WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS	POLIOMYELITIS			RUBELLA
		Cumulative			Cumulative			Total	Paralytic		
	1968	1968	1967	1968	1968	1967	1968	1968	1968	Cum. 1968	1968
UNITED STATES...	135	20,235	59,079	27	2,163	1,812	1,169	2	2	50	285
NEW ENGLAND.....	7	1,172	881	-	125	73	108	-	-	1	32
Maine.*.....	-	38	248	-	6	3	14	-	-	-	4
New Hampshire.....	-	141	77	-	7	2	9	-	-	-	-
Vermont.....	-	2	34	-	1	1	14	-	-	-	-
Massachusetts.*.....	1	365	369	-	64	34	61	-	-	1	13
Rhode Island.....	-	6	62	-	9	4	10	-	-	-	-
Connecticut.....	6	620	91	-	38	29	-	-	-	-	15
MIDDLE ATLANTIC.....	30	4,162	2,327	4	390	297	34	-	-	1	19
New York City.....	22	2,196	476	2	80	52	26	-	-	-	12
New York, Up-State*.	7	1,239	598	-	69	73	NN	-	-	1	7
New Jersey.*.....	1	612	502	2	136	97	8	-	-	-	-
Pennsylvania.....	-	115	751	-	105	75	NN	-	-	-	-
EAST NORTH CENTRAL...	27	3,913	5,686	3	261	246	275	1	1	4	75
Ohio.....	2	299	1,159	2	72	87	26	-	-	1	2
Indiana.....	8	693	617	-	36	26	17	-	-	1	15
Illinois.....	2	1,381	1,023	-	58	57	42	-	-	1	5
Michigan.....	7	291	956	1	75	59	51	1	1	1	29
Wisconsin.....	8	1,249	1,931	-	20	17	139	-	-	-	24
WEST NORTH CENTRAL...	1	394	2,898	-	114	81	136	-	-	3	12
Minnesota.....	-	16	134	-	27	20	7	-	-	-	3
Iowa.*.....	-	103	755	-	7	16	95	-	-	1	8
Missouri.....	-	81	338	-	37	16	18	-	-	2	-
North Dakota.....	-	137	874	-	3	2	11	-	-	-	1
South Dakota.....	-	4	55	-	5	6	NN	-	-	-	-
Nebraska.....	1	43	648	-	8	13	5	-	-	-	-
Kansas.....	-	10	94	-	27	8	-	-	-	-	-
SOUTH ATLANTIC.....	6	1,533	7,024	3	432	355	77	-	-	3	14
Delaware.....	-	16	50	-	8	7	-	-	-	-	1
Maryland.....	1	103	168	1	36	48	1	-	-	-	2
Dist. of Columbia..	-	6	23	-	15	12	1	-	-	1	-
Virginia.*.....	1	301	2,214	-	40	42	12	-	-	-	-
West Virginia.....	1	294	1,413	-	13	34	40	-	-	1	5
North Carolina.....	1	284	894	1	83	71	NN	-	-	1	-
South Carolina.....	-	12	511	-	58	30	11	-	-	-	1
Georgia.....	-	4	36	-	86	53	-	-	-	-	-
Florida.....	2	513	1,715	1	93	58	12	-	-	-	5
EAST SOUTH CENTRAL...	3	500	5,334	2	196	142	44	-	-	2	12
Kentucky.....	3	103	1,396	1	90	42	18	-	-	1	6
Tennessee.....	-	62	1,932	1	57	60	21	-	-	-	6
Alabama.....	-	95	1,335	-	26	26	3	-	-	1	-
Mississippi.....	-	240	671	-	23	14	2	-	-	-	-
WEST SOUTH CENTRAL...	29	4,918	17,665	7	320	232	89	1	1	24	22
Arkansas.....	-	2	1,404	-	20	33	-	1	1	1	-
Louisiana.....	-	24	156	4	92	93	6	-	-	-	-
Oklahoma.....	-	125	3,354	-	50	17	9	-	-	2	2
Texas.....	29	4,767	12,751	3	158	89	74	-	-	21	20
MOUNTAIN.....	8	1,016	4,737	1	38	35	51	-	-	-	18
Montana.....	-	58	306	-	6	3	4	-	-	-	1
Idaho.....	-	21	393	-	11	3	6	-	-	-	-
Wyoming.*.....	1	53	181	-	2	1	-	-	-	-	-
Colorado.....	1	516	1,590	-	11	13	7	-	-	-	7
New Mexico.....	4	117	591	-	-	3	12	-	-	-	6
Arizona.....	2	225	1,025	1	4	5	12	-	-	-	3
Utah.....	-	21	382	-	1	4	10	-	-	-	1
Nevada.....	-	5	269	-	3	3	-	-	-	-	-
PACIFIC.....	24	2,627	12,527	7	287	351	355	-	-	12	81
Washington.....	5	551	5,514	1	45	31	52	-	-	1	19
Oregon.....	6	540	1,655	-	22	27	16	-	-	-	20
California.....	13	1,492	5,040	6	205	278	279	-	-	11	38
Alaska.....	-	9	140	-	3	11	3	-	-	-	2
Hawaii.....	-	35	178	-	12	4	5	-	-	-	2
Puerto Rico.....	2	436	2,205	-	20	13	35	-	-	-	2

*Delayed reports: Measles: Mass. delete 4, N.J. delete 3, Va. delete 6
Meningococcal infections: Wyo. 1
Mumps: Me. 5
Poliomyelitis, paralytic: N.Y. Upstate 1, Iowa delete 1
Rubella: Me. 2, Va. 5

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
OCTOBER 19, 1968 AND OCTOBER 21, 1967 (42nd WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968
UNITED STATES...	7,011	6	145	-	157	9	312	3	265	44	2,826
NEW ENGLAND.....	744	-	3	-	47	-	9	-	1	-	72
Maine.*.....	15	-	-	-	-	-	-	-	-	-	53
New Hampshire.....	1	-	-	-	-	-	1	-	-	-	2
Vermont.....	1	-	-	-	47	-	-	-	-	-	11
Massachusetts.....	136	-	1	-	-	-	5	-	1	-	5
Rhode Island.....	49	-	-	-	-	-	-	-	-	-	-
Connecticut.....	542	-	2	-	-	-	3	-	-	-	1
MIDDLE ATLANTIC.....	101	-	18	-	7	1	27	2	21	1	45
New York City.*.....	1	-	11	-	-	1	15	-	-	-	-
New York, Up-State.	88	-	4	-	7	-	5	1	5	1	38
New Jersey.....	NN	-	-	-	-	-	4	1	7	-	-
Pennsylvania.....	12	-	3	-	-	-	3	-	9	-	7
EAST NORTH CENTRAL...	534	2	15	-	11	-	40	-	9	3	258
Ohio.....	37	1	2	-	1	-	17	-	7	-	86
Indiana.....	82	-	3	-	1	-	3	-	-	-	83
Illinois.....	171	1	6	-	8	-	19	-	2	1	37
Michigan.....	147	-	3	-	1	-	-	-	-	-	14
Wisconsin.....	97	-	1	-	-	-	1	-	-	2	38
WEST NORTH CENTRAL...	348	1	14	-	15	-	34	-	9	6	700
Minnesota.....	12	-	2	-	-	-	1	-	-	4	218
Iowa.....	113	-	4	-	-	-	2	-	1	1	111
Missouri.....	3	1	5	-	7	-	25	-	3	-	101
North Dakota.....	84	-	-	-	-	-	-	-	-	1	109
South Dakota.....	22	-	-	-	3	-	1	-	4	-	97
Nebraska.....	90	-	3	-	-	-	3	-	1	-	25
Kansas.....	24	-	-	-	5	-	2	-	-	-	39
SOUTH ATLANTIC.....	797	-	32	-	11	1	54	1	140	6	333
Delaware.....	6	-	-	-	-	-	-	-	-	-	1
Maryland.....	85	-	3	-	-	-	9	-	18	-	5
Dist. of Columbia..	2	-	2	-	-	-	1	-	-	-	1
Virginia.....	233	-	4	-	3	-	9	1	43	1	117
West Virginia.....	187	-	2	-	-	-	-	-	2	1	43
North Carolina.*....	23	-	2	-	2	-	2	-	39	-	12
South Carolina.*....	78	-	4	-	-	-	1	-	9	-	-
Georgia.....	11	-	3	-	4	-	14	-	26	1	62
Florida.....	172	-	12	-	2	1	18	-	3	3	92
EAST SOUTH CENTRAL...	1,263	-	15	-	8	3	38	-	51	11	601
Kentucky.....	192	-	1	-	1	1	9	-	10	6	307
Tennessee.....	809	-	6	-	5	-	16	-	35	3	264
Alabama.....	69	-	5	-	-	-	2	-	4	1	23
Mississippi.....	193	-	3	-	2	2	11	-	2	1	7
WEST SOUTH CENTRAL...	767	2	27	-	46	3	45	-	28	3	442
Arkansas.....	19	-	4	-	15	3	14	-	6	2	56
Louisiana.....	52	1	10	-	7	-	6	-	1	-	41
Oklahoma.*.....	77	-	-	-	8	-	14	-	13	-	117
Texas.*.....	619	1	13	-	16	-	11	-	8	1	228
MOUNTAIN.....	1,356	-	1	-	8	-	15	-	5	1	80
Montana.....	19	-	-	-	-	-	-	-	-	-	-
Idaho.....	159	-	-	-	-	-	-	-	1	-	-
Wyoming.....	286	-	-	-	1	-	1	-	-	-	3
Colorado.....	456	-	-	-	3	-	2	-	4	-	4
New Mexico.....	271	-	-	-	-	-	8	-	-	-	33
Arizona.....	74	-	1	-	-	-	3	-	-	-	36
Utah.....	91	-	-	-	4	-	-	-	-	1	1
Nevada.....	-	-	-	-	-	-	1	-	-	-	3
PACIFIC.....	1,101	1	20	-	4	1	50	-	1	13	295
Washington.....	339	-	1	-	-	-	2	-	-	-	2
Oregon.....	90	-	1	-	1	-	5	-	-	-	6
California.....	527	1	18	-	3	1	43	-	1	13	287
Alaska.....	33	-	-	-	-	-	-	-	-	-	-
Hawaii.....	112	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	10	1	11	-	-	1	4	-	-	-	18

*Delayed reports: SST. Me. 7
Tetanus: N.Y.C. 1
Tularemia: Tex. 1
Typhoid: S.C. delete 3, Okla. 2
Rabies in animals: N.C. delete 1

Week No. 42

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED OCTOBER 19, 1968

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over		
NEW ENGLAND:	759	463	33	32
Boston, Mass.	275	152	7	12
Bridgeport, Conn.	49	32	3	-
Cambridge, Mass.	31	23	-	-
Fall River, Mass.	37	20	4	1
Hartford, Conn.	63	42	1	2
Lowell, Mass.	26	19	-	-
Lynn, Mass.	30	24	-	4
New Bedford, Mass.	24	17	3	1
New Haven, Conn.	45	22	-	3
Providence, R. I.	49	21	4	5
Somerville, Mass.	18	11	2	-
Springfield, Mass.	31	24	3	2
Waterbury, Conn.	27	19	1	1
Worcester, Mass.	54	37	5	1
MIDDLE ATLANTIC:	3,322	1,906	112	125
Albany, N. Y.	50	27	1	3
Allentown, Pa.	31	17	1	1
Buffalo, N. Y.	162	100	4	2
Camden, N. J.	43	25	5	2
Elizabeth, N. J.	46	26	1	2
Erie, Pa.	39	25	6	1
Jersey City, N. J.	89	51	3	3
Newark, N. J.	101	36	8	8
New York City, N. Y.	1,710	1,019	42	58
Paterson, N. J.	33	21	3	-
Philadelphia, Pa.	395	210	4	19
Pittsburgh, Pa.	198	93	11	5
Reading, Pa.	55	36	2	1
Rochester, N. Y.	132	87	11	6
Schenectady, N. Y.	22	8	1	3
Scranton, Pa.	30	18	3	-
Syracuse, N. Y.	82	49	3	6
Trenton, N. J.	51	33	-	1
Utica, N. Y.	28	12	1	4
Yonkers, N. Y.	25	13	2	-
EAST NORTH CENTRAL:	2,700	1,545	89	151
Akron, Ohio	87	52	-	4
Canton, Ohio	26	14	2	3
Chicago, Ill.	788	415	35	50
Cincinnati, Ohio	172	89	1	4
Cleveland, Ohio	171	89	1	2
Columbus, Ohio	131	83	1	8
Dayton, Ohio	83	47	1	10
Detroit, Mich.	381	227	8	28
Evansville, Ind.	56	28	5	5
Flint, Mich.	49	24	4	3
Fort Wayne, Ind.	45	27	3	2
Gary, Ind.	31	15	2	3
Grand Rapids, Mich.	79	47	3	4
Indianapolis, Ind.	158	82	2	6
Madison, Wis.	39	23	7	3
Milwaukee, Wis.	123	89	6	2
Peoria, Ill.	41	29	-	3
Rockford, Ill.	43	27	1	6
South Bend, Ind.	30	25	3	-
Toledo, Ohio	105	69	3	5
Youngstown, Ohio	62	44	1	-
WEST NORTH CENTRAL:	874	536	30	42
Des Moines, Iowa	68	38	3	3
Duluth, Minn.	36	22	3	2
Kansas City, Kans.	41	20	5	6
Kansas City, Mo.	136	88	3	6
Lincoln, Nebr.	42	27	-	2
Minneapolis, Minn.	94	67	3	6
Omaha, Nebr.	72	41	-	-
St. Louis, Mo.	265	163	7	7
St. Paul, Minn.	55	32	-	5
Wichita, Kans.	65	38	6	5

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over		
SOUTH ATLANTIC:	1,049	539	35	35
Atlanta, Ga.	117	52	1	2
Baltimore, Md.	205	97	3	6
Charlotte, N. C.	46	22	2	-
Jacksonville, Fla.	70	32	-	2
Miami, Fla.	94	50	2	5
Norfolk, Va.	52	29	7	2
Richmond, Va.	73	38	5	2
Savannah, Ga.	28	15	-	5
St. Petersburg, Fla.	65	53	-	3
Tampa, Fla.	66	42	1	1
Washington, D. C.	182	81	8	6
Wilmington, Del.	51	28	1	1
EAST SOUTH CENTRAL:	605	324	27	26
Birmingham, Ala.	79	40	2	4
Chattanooga, Tenn.	60	31	5	1
Knoxville, Tenn.	41	30	-	2
Louisville, Ky.	124	69	12	2
Memphis, Tenn.	126	64	2	8
Mobile, Ala.	51	20	1	5
Montgomery, Ala.	37	26	3	1
Nashville, Tenn.	87	44	2	3
WEST SOUTH CENTRAL:	1,113	537	43	77
Austin, Tex.	37	20	1	3
Baton Rouge, La.	36	16	-	-
Corpus Christi, Tex.	22	14	-	2
Dallas, Tex.	143	65	3	11
El Paso, Tex.	20	7	3	2
Fort Worth, Tex.	72	34	2	7
Houston, Tex.	259	106	6	22
Little Rock, Ark.	47	26	4	2
New Orleans, La.	164	83	5	7
Oklahoma City, Okla.	79	39	3	2
San Antonio, Tex.	116	70	4	8
Shreveport, La.	61	32	9	6
Tulsa, Okla.	57	25	3	5
MOUNTAIN:	440	251	13	27
Albuquerque, N. Mex.	52	25	6	4
Colorado Springs, Colo.	20	9	2	3
Denver, Colo.	109	62	2	9
Ogden, Utah	21	10	1	1
Phoenix, Ariz.	94	53	-	6
Pueblo, Colo.	29	20	-	2
Salt Lake City, Utah	65	42	2	2
Tucson, Ariz.	50	30	-	-
PACIFIC:	1,657	988	23	45
Berkeley, Calif.	31	23	1	2
Fresno, Calif.	62	28	-	3
Glendale, Calif.	25	11	-	-
Honolulu, Hawaii	63	37	1	2
Long Beach, Calif.	85	63	2	-
Los Angeles, Calif.	464	275	5	14
Oakland, Calif.	85	49	2	1
Pasadena, Calif.	44	29	-	-
Portland, Oreg.	144	79	1	6
Sacramento, Calif.	58	38	3	1
San Diego, Calif.	87	49	2	4
San Francisco, Calif.	200	116	4	2
San Jose, Calif.	44	27	-	4
Seattle, Wash.	164	89	-	3
Spokane, Wash.	55	38	1	1
Tacoma, Wash.	46	37	1	2
Total	12,519	7,089	405	560

Cumulative Totals
including reported corrections for previous weeks

All Causes, All Ages	533,383
All Causes, Age 65 and over	306,750
Pneumonia and Influenza, All Ages	21,247
All Causes, Under 1 Year of Age	25,263

VIRAL HEPATITIS – *(Continued from page 390)*

higher than for the comparable period in 1959. Thus the extent of the present reversal is not as great as that observed in 1959-60.

(Reported by Hepatitis Unit, Viral Diseases Section, and Statistics Section, Epidemiology Program).

*Morbidity data are summarized in terms of an "epidemiologic year" which for hepatitis begins with the 27th week of the calendar year.

INFLUENZA

An outbreak of influenza from which A2 Hong Kong variant strains have been isolated has occurred in a school in Surrey, England.[1] The disease has not spread rapidly and has been confined almost exclusively to children. In addition, the influenza epidemic which began in Teheran during the second week of September (MMWR, Vol. 17, No. 39) is spreading rapidly throughout Iran.[2]

Isolated cases of A2 influenza continue to be reported in the United States. Recently, an A2 influenza virus similar to the Hong Kong strains was isolated in Illinois from a soldier returning from Vietnam. There have still been no reported outbreaks of influenza in the civilian population of the United States.

(Reported by Robert Muldoon, M.D., Department of Medicine, University of Illinois; and Richard Morrissey, M.P.H., Chief, Division of Laboratories, Illinois Department of Public Health.)

Reference:
[1] *WHO Weekly Epidemiological Record, 43*(42):537.
[2] *WHO Weekly Epidemiological Record, 43*(41):522.

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